

US EPA ARCHIVE DOCUMENT

# Source Area

## RI/RA Status



### Remedial Investigation

- Address Data gaps – A1/A2
- Supplemental RI in progress

### Remedial Action

- RA Work Plan in development





# Source Area

July 31, 2012

Supplemental RI



# Submerged Oil

## Agitation Effectiveness



### Progress

- Delta Z/EE/H (Complete)
- MP 21.5 (Complete)
- MP 14.75
- Ceresco

### Scope of Work Modifications

- Repeat Delta Z test?
- Coring?

### Schedule

TBD

#### EVALUATING THE EFFICACY AND POTENTIAL ECOLOGICAL EFFECTS OF IN-SITU SEDIMENT AGITATION (SUMMER 2012)

	Time after Agitation (hours)							
	-1.0	0.0	0.25	0.5	1.0	2.0	4.0	4.5
<i>Field Task / Measurement</i>								
Poling and associated measurements outside of enclosure	☑							
Collect depth-integrated water sample	☑	☑					☑	
Collect sheen sample	☑	☑						
Collect sediment cores (3) within cylinder and composite sediment	☑							☑
Measure turbidity within cylinder (6 inch intervals)	☑	☑	☑	☑	☑	☑	☑	
Measure DO within cylinder (6 inch intervals)	☑	☑	☑	☑	☑	☑	☑	
LISST particle size analysis	☑	☑	☑	☑	☑	☑	☑	
<i>Laboratory Analysis Task</i>								
TSS on depth-integrated water sample	☑	☑					☑	
Oil fingerprinting on suspended solids and filtrate (filtered water) from depth-integrated water sample	☑	☑						
Oil fingerprinting on sediment core samples	☑							☑
Wet + dry bulk density, TOC on sediment core samples	☑							☑
UV fluorescence microscopy on suspended solids and sediment core samples	☑	☑						
UV fluorescence microscopy on sediment core samples	☑							☑
Oil fingerprinting on sheen sample	☑	☑						



# Submerged Oil Quantification



Sediment Core Collection

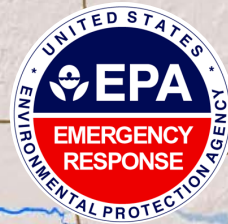
Sediment Core Logging

QA/QC



# Submerged Oil

Quantification  
Core-Logging







- GIS Review

- GIS Review



# Emerging Oil Management



## Objective

Modulate EOMP to exclude responses to innocuous or de-minimus sheen

## Response Criteria

- Location
- Area of Impact
- Oil Character
- Other Considerations





# Containment

## Ceresco Dam/E4



### Ceresco Dam

- Vegetation management

### E4 System

- Oil Migration (Poling)
- Monitoring/Maintenance Plan(s)
- Curtain Maintenance



# Sediment Trap

## Monitoring & Maintenance



### Phase I Traps (6)

- Monitoring schedule
- Poling Results

### Phase II Traps (14)

- Permit acquisition
- Structure installation
- Monitoring
- River stage considerations

### Recovery Considerations

### Reporting Schedule

- Quarterly

